

Form PTO-1449 (MODIFIED) INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 032026-0736	SERIAL NO. Unassigned
	APPLICANT Nicholas L. ABBOTT et al.	Serial No. of Parent Application: 09/784,679	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
MC6		5,091,318	25 Feb. 1992	Anawis et al.			
↓		5,712,103	27 Jan. 1998	Leavitt et al.			
↓		6,171,802	09 Jan. 2001	Woolverton et al.			
MC6		6,284,197	04 Sep. 2001	Abbott et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
<i>MCF</i>		DE 3617710 A1	04 Dec. 1986	Germany <i>(No Translation)</i>				X
		JP 02311822 A2	27 Dec. 1990	Japan 1				X
		JP 02311824 A2	27 Dec. 1990	Japan 1				X
		JP 03010222 A2	17 Jan. 1991	Japan 1				X
		JP 03039932 A2	20 Feb. 1991	Japan 1				X
		JP 04057024 A2	24 Feb. 1992	Japan 1				X
		JP 04057025 A2	24 Feb. 1992	Japan 1				X
		JP 04284423 A2	09 Oct. 1992	Japan 1				X
		JP 05134257 A2	28 May 1993	Japan 1				X
		JP 05134258 A2	28 May 1993	Japan 1				X
		JP 06175136 A2	24 Jun 1994	Japan 1				X
		JP 06194513 A2	15 Jul. 1994	Japan 1				X
		JP 06194662 A2	15 Jul. 1994	Japan 1				X
<i>✓</i>		WO 99/63329	09 Dec. 1999	PCT				
<i>MCF</i>		WO 99/64862	16 Dec. 1999	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MC		<p>Starkey, C.A. et al. "Evaluation of the Recombigen HIV-1 Latex Agglutination Test", <i>J. Clin. Microbiol.</i>, Vol. 28, No. 4, pp. 819-822, April 1990; published by the American Society for Microbiology (Washington D.C.).</p>
MC		<p>Häussling, L. et al. "Biotin-Functionalized Self-Assembled Monolayers on Gold: Surface Plasmon Optical Studies of Specific Recognition Reactions", <i>Langmuir</i>, Vol. 7, No. 9, pp. 1837-1840, September 1991; published by the American Chemical Society (Washington, D.C.).</p>

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MS		Jérôme, B., "Surface Effects and Anchoring in Liquid Crystals," <i>Rep. Prog. Phys.</i> Vol. 54, pp. 391-452, 1991; published by IOP publishing Ltd. (United Kingdom).
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		Charych, D.H. et al., "Direct Colorimetric Detection of a Receptor-Ligand Interaction by a Polymerized Bilayer Assembly", <i>Science</i> , Vol. 261, pp. 585-588, 30 July 1993; published by the American Association for the Advancement of Science (Washington D.C.).
		Cocchi, J.M. et al., "Comparison Between Direct Binding, Competition and Agglutination Assays in the Characterization of Polyclonal Anti-idiotypes Against Anti-HBs Human Monoclonal Antibodies," <i>Immunological Meth.</i> , Vol. 160, pp. 1-9, 1993; Elsevier Science Publishers.
		H. Weetall. "Preparation of Immobilized Proteins Covalently Coupled Through Silane Coupling Agents to Inorganic Supports," <i>Applied Biochemistry and Biotechnology</i> , Vol. 41, pp. 157-188, 1993; published by Humana Press Inc. (Totowa, NJ)
		Kuby, J., <i>Immunology</i> , Second Edition (1994), pp. 147-150; W.H. Freeman and Company (New York, NY).
		Cornell, B.A. et al., "A Biosensor that uses Ion-Channel Switches," <i>Nature</i> , Vol. 387, pp. 580-583, 5 June 1997; published by Nature Publishing (New York, NY).
		Lin, V. et al., "A Porous Silicon-Based Optical Interferometric Biosensor," <i>Science</i> , Vol. 278, pp. 840-843, 31 October 1997; published by the American Association for the Advancement of Science (Washington, D.C.).
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✓		Gupta, V. K. et al., "Optical Amplification of Ligand-Receptor Binding Using Liquid Crystals," <i>Science</i> , Vol. 279, pp. 2077-2080, 27 March 1998; published by the American Association for the Advancement of Science (Washington D.C.).
MC		Dancil, K. S. et al., "A Porous Silicon Optical Biosensor: Detection of Reversible Binding of IgG to a Protein A-Modified Surface," <i>J. Am. Chem. Soc.</i> , Vol. 121 pp. 7925-7930, 1999; published by the American Chemical Society (Washington D.C.).
		Naoka, M. et al., "Ferroelectric Liquid Crystal Alignment Films Utilizing Poly (DL amino acids) and Fibrous Proteins," <i>Kobunshi Ronbunshu</i> , Vol. 56, No. 6, pp. 396-400, June 1999. English-language abstract is at the end of the documents NO TRANSLATION
MS	3	Kim, S-R. et al., "Orientations of Liquid Crystals on Mechanically Rubbed Films of Bovine Serum Albumin: A Possible Substrate for Biomolecular Assays Based on Liquid Crystals," <i>Anal. Chem.</i> , Vol. 72, No. 19, pp. 4646-4653, 1 October 2000; published by the American Chemical Society (Washington D.C.).
EXAMINER		DATE CONSIDERED <u>8/6/05</u>
*	EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.	